

PHENIX WEEKLY PLANNING

9/28/06 Don Lynch

PHENIX

Technica

Support

PHENIX Shutdown Overview

Task_Name	Start_Date	Finish_Date
PHENIX Shutdown '06	5/1/2006	12/8/2006
Pre Shutdown Tasks	5/1/2006	DONE
End of Run 6	6/27/2006	DONE
Shutdown Preparations	6/27/2006	DONE
Detector Upgrades	7/19/2006	10/19/2006 +
Planned electrical power outage	7/24/2006	DONE
Subsystem maint/repair tasks	7/19/2006	10/10/2006
Building and infrastructure tasks	5/1/2006	10/31/2006
E carriage roll in & setup	10/23/2006 +	11/10/2006 +
RHIC Cooldown Begins	12/1/2006+	12/1/2006+
Run Prep	11/20/2006 +	12/31/2006 +
Shutdown Concluded Start Physics Run	1/1/2007 +	1//2007 +

⁺ Assumes 12/1 start of cooldown



TOF West

- Mechanical Installation Complete
- · Cables Run
- Rack Modifications ongoing
- Testing and commissioning to be completed









RXNP

- Technica Mechanical Installation Complete
 - Cables Run
 - Rack Plumbing, Power on going
 - Testing and commissioning to be completed









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- Mechanical Installation HBD West Complete
- Mechanical Installation HBD West Complete
 HBD West Cables Run
 Testing and commissioning to be completed
 HBD East now at Stony Brook due here
 10/16/06; mechanical installation to be
 completed by 10/18/06
 Cooling & Bakeout heater
 - Cooling & Bakeout heater Systems to be installed
 - Gas Hutch renovation ongoing











HBD Electronics Cooling



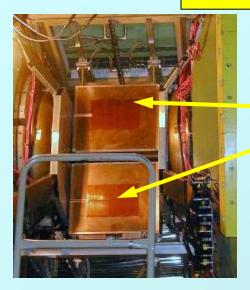
Still Needed for Approval to Operate:

- Where will fan(s) be mounted? CM base "cubby hole" fan model and specs to be forwarded to Safety
- Written Design and operation description and—To be forwarded to Safety

2006



HBD Heaters



Heater Controls



Needed for Approval to Operate:

 Report detailing design and operation— To be forwarded to Safety

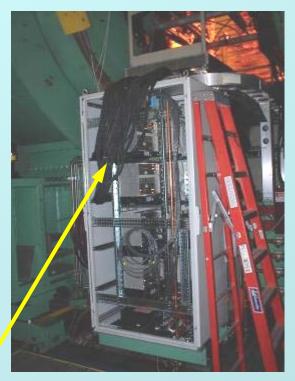




HBD Signal Rack



Cutouts for signal cables



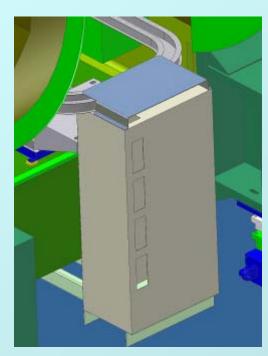
Signal cables routed down east side of crate covered by "chimney"



HBD Signal Rack



Modify tray and rack side panel



2. Add \(\frac{1}{4}\)" top plate/cover



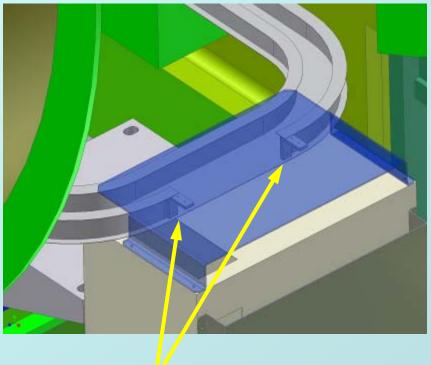
3. Add 4" chimney





HBD Signal Rack





4. Existing connecting member for "U"-tray to be removed

5. Internal supports replace connecting member and supply support for the $\frac{1}{4}$ " thick top cover/step

Drawings are complete and at C.S.





		Start	Complete
TO	West		
	Electrical, modify/upgrade rack	in progress	10/10/06
	Commissioning	in progress	10/10/06
RXI	NP CONTRACTOR OF THE CONTRACTO		
	Electrical, rack integration: water & power	in progress	10/10/06
	Commissioning	in progress	10/10/06
HBI			
	Electrical cables, rack integration: water & power	in progress	10/10/06
	Gas Plumbing	in progress	10/10/06
	East pre-survey	10/12/06	10/13/06 +
	East mechanical installation (incl. final survey)	10/16/06	10/17/06 +
	East cable trays	10/17/06	10/18/06 +
	HBD preamp cooling system	9/5/06	10/10/06 +
	HBD drying heater system	9/5/06	10/6/06 +
	Commissioning	9/25/06	11/31/06 +

⁺ Assumes 12/1 start of cooldown



Remaining Schedule (cont'd)

Technica Complete Start MPC North Mechanical installation 10/6/06 9/13/06 Electrical, modify/upgrade rack 9/25/06 10/6/06 Commissioning 9/29/06 10/31/06 DC West Wire Repairs Done Done MuTr North & South HV & FEE troubleshooting Done Done Sup PC HV module and cable maintenance 10/24/06 10/31/06 TEC maintenance & Repairs 10/6/06 in progress BBC North & South maintenance & repairs Done Done 10/20/06 10/27/06 + MuID survey r t MuID commissioning 11/22/06 11/29/06 +

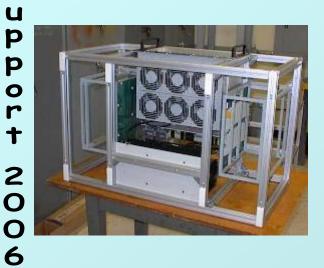
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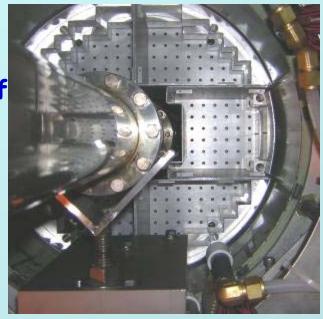
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MPC North

- Mechanical installation started, but delayed
- Driver boards won't be ready until end of next week at best Oct. 2nd is more realistic
- · Crate & cable routing to the bridge
- Testing and commissioning to be completed



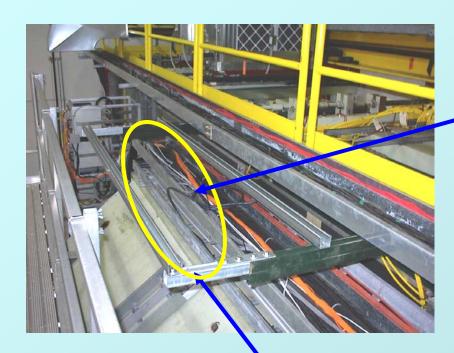








MPC North Cable Routing



Unistrut Crate Support



MPC North Crate





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P P o r t

2006

MPC North Cable Routing

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1. Crate supported on unistrut west of north crossover

2. Cables routed to tray under north crossover platform

3. Cables routed in tray mounted to MMN top lampshade

4. Cables run down from top of station 1 into Piston Cavity and connect to MPC driver boards

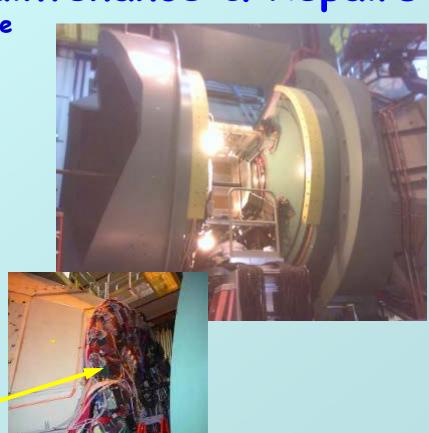


Subsystem Maintenance & Repairs

· EMCal West & East Done

- · DC HV/LV patch panel upgrade Done
- · DC wire short troubleshooting Done
- · MuTr grounding problems Done
- MuTr North and South HV/FEE troubleshooting Done
- PC HV module/cable maintenance next month
- TEC upgrades on going
- BBC South & North out for repairs will be reinstalled later this month
- · MPC South repairs Done
- MuID survey/commissioning next month







CAD/RHIC PHENIX infrastucture related mechanical and electrical support

Emergency remote breaker installation

Summer Sunday review platform and safety rails

Bridge Water supply vertical piping rework

Mixing House exhaust fan maintenance

Raw materials storage container painting and doors

Roof leak repairs

MuID survey

Bridge protective runners





Infrastructure Work

Done

Done

Done

Done

Done

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Done







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Remaining Schedule

(cont'd)

	Start	Complete
East carriage roll in & setup		
Prepare IR & EC for move to IR/move cart, manlifts, collars	23-Oct	31-Oct
EC Roll in	1-Nov	2-Nov
Connect EC services	3-Nov	10-Nov
Install EC Ladder	3-Nov	10-Nov
Install EC rear access & ext.	3-Nov	10-Nov
Move MMS full North/Install beam pipe collar	20-Nov	22-Nov
Rebuild Rolling door	27-Nov	30-Nov
Close rolling door	30-Nov	30-Nov
RHIC Cooldown Begins	1-Dec	1-Dec
Pink Sheeting & Blue Sheeting	4-Dec	15-Dec
Start Flammable Gas Flow	18-Dec	18-Dec
All Up Commissioning	18-Dec	22-Dec
Beam in yellow ring	25-Dec	25-Dec
Beam in blue ring	1-Jan	1-Jan
RHIC beam conditioning	1-Jan	8-Dec
Shutdown Concluded/Start of Physics Run	8-Jan	8-Jan

All dates Assume 12/1 start of cooldown



SEU Test John Lajoie Iowa State

Questions:

- (1) Where can this box be placed so that it will cause the minimum disruption? Ideally it would be close to the interaction point, and in the muon arm acceptance (material shouldn't be a problem?).
- (2) What additional information is needed from experiment group? Presumably there must at least be an experimental impact statement and a safety review?
- (3) Are there any safety considerations that should be taken into account work to complete the test box is undertaken? Is the AC power OK?
- (4) When does this need to be at BNL to be installed?









Next Week

Tec hnica S u p Port 2006

- MPC N installation continues
- · HBD & RXNP rack wiring and electrical tests
- · HBD signal rack chimney/ladder
- · TEC repairs
- MPC N Cable path/trays



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Where To Find PHENIX Technical Info

Links for the shutdown schedule as well as weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found from the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm